

5 INTERVAL-BASED SCHEDULING OF USB TRANSACTIONS

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ABSTRACT OF THE DISCLOSURE

An apparatus and method is provided for scheduling USB transaction processing tasks. A periodic queue head list associated with a USB host controller is configured to be processed once every polling period. The periodic queue head list describes a location of the USB transaction processing tasks scheduled for processing. The entries in a frame list of the USB host controller are linked to identify a corresponding periodic queue head list. A USB transaction processing task processed by the USB host controller is assigned to one of the periodic queue head list. A desired response time for the USB transaction processing task is matched with the polling period of the periodic queue head list.